

GRANULAR PROLONGED RELEASE TYPE AGRICULTURAL CHEMICAL

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Abstract

PURPOSE: A safe and prolonged release type granular agricultural chemical, prepared by coating simple agricultural chemical particles, containing a water-soluble and evaporating agricultural chemical active constituent, and having a specific diameter with a thermoplastic resin coat formed by removing the solvent therefrom through a jelly state, having a long controlling effect with a small amount of the chemical.

CONSTITUTION: A granular prolonged release type agricultural chemical prepared by coating simple agricultural chemical particles containing a water-soluble or evaporating agricultural chemical active constituent, e.g. sodium dichloropropionate, and having a diameter $\geq 0.5\text{mm.}$, preferably 2-5mm., with a coating of a thermoplastic resin e.g. polyethylene, prepared by removing the solvent from the solution in a bad solvent in a gas flow layer through a jelly state, and solidifying the resin. The thermoplastic resin solution in a bad solvent is held on the surface of the agricultural chemical particles, and then the solvent is removed without causing the gelation and phase separation in a hot air stream to coat the surfaces of the agricultural chemical particles with the adhesive of the agricultural chemical particles with the adhesive and tough thermoplastic resin film and give the aimed granular prolonged release type agricultural chemical. There is no danger such as irritating action on the skin or a rash.